

19.7 fb⁻¹ (8 TeV)Lower limits on M_* (GeV)**CMS**

- Observed 90% CL
- Median expected 90% CL
- Expected within 68%
- Expected within 95%

- $g=2\pi$, $R=80\%$
- $g=2\pi$, $R=50\%$
- $g=4\pi$, $R=80\%$
- $g=4\pi$, $R=50\%$

$$M_*^3 < (M_\chi/2\pi)^2 m_t$$

0

50

100

150

200

250

1

10

10²10³Dark matter mass M_χ (GeV)